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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/748,146	12/31/2003	Stephen Dana Bjorgan	246437US67	6869	
22850 ORLON SPIN	7590 02/06/2007 YAK, MCCLELLAND, MA	IER & NEUSTADT P.C.	EXAM	INER	
1940 DUKE S	TREET	EK & NEOSTADI, 1.0.	246437US67 6869 EXAMINER ORR, HENRY W	NRY W	
ALEXANDRI	A, VA 22314		ART UNIT PAPER NUMBER		
			2176		
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SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MC	ONTHS	02/06/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/748,146	BJORGAN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Henry Orr	2176	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet v	vith the correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MC atute, cause the application to become a	ICATION. I reply be timely filed INTHS from the mailing date of this com ABANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 3 This action is FINAL . 2b) □ 3 Since this application is in condition for allocation accordance with the practice und	This action is non-final. wance except for formal ma		merits is
Disposition of Claims			
4) Claim(s) <u>1-5</u> is/are pending in the application 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) <u>1-5</u> is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	drawn from consideration.		-
Application Papers			•
9) ☐ The specification is objected to by the Exam 10) ☑ The drawing(s) filed on 30 August 2004 is/a Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) ☐ The oath or declaration is objected to by the	re: a)⊠ accepted or b)☐ c the drawing(s) be held in abeya rection is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFF	R _. 1.121(d).
Priority under 35 U.S.C. § 119	• •		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	ents have been received. Tents have been received in priority documents have been reau (PCT Rule 17.2(a)).	Application No n received in this National S	itage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/31/03, 4/10/06.	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application	

Application/Control Number: 10/748,146 Page 2

Art Unit: 2176

DETAILED ACTION

1. This action is responsive to application communication filed December 31, 2003.

2. Claims 1-5 are pending in the case. Claim 1 is an independent claim.

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 12/31/2003 and 4/10/2006 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the examiner is considering the information disclosure statements.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 2 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 2 recites the limitation "the first virtual interface comprises a keyboard interface in a first language and the second virtual interface comprises a

Application/Control Number: 10/748,146 Page 3

Art Unit: 2176

keyboard interface in a second language". However, the applicant specification lacks written support for the limitation recited in claim 2.

6. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the phrase "a user" in line 9. There is insufficient antecedent basis for this limitation in the claim because it is unclear whether "a user" in line 9 is referring to previously recited "a user" in the preamble of claim 1. Examiner suggest to applicant to replace "a user" in line 9 of claim 1 with "the user" to overcome rejection.

Dependent claims 2-5 are rejected for fully incorporating the deficiency of base claim 1.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 2176

8. Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Torunoglu et al. (hereafter referred to as Torunoglu), U.S. Published Application #2003/0174125 A1 of record.

Regarding claim 1, Torunoglu teaches "the system of the invention projects input guides for two or more modes simultaneously" (par. 24). (claim; i.e., a projection unit for projecting) Examiner interprets the system in Figure 1a to illustrate a projector that projects an input guide. (see Ref.#110 in Figure 1a)

Torunoglu also teaches "the sensing device of the invention detects whether a user appears to be tapping (as one would interact with a keyboard) or gliding across the work surface (as one would interact with a mouse)" (par. 23). (claim 1; i.e., a first virtual interface including at least one of a virtual keyboard, a virtual mousepad and at least one virtual mouse button and (2) a second virtual interface including at least one of a virtual keyboard, a virtual mousepad and at least one virtual mouse button to be displayed in place of at least a portion of said first virtual interface; a motion sensor for determining a position on the first and second virtual interfaces that is interacted with by a user;) Examiner interprets the keyboard as a potential first virtual interface and the mouse as a potential second virtual interface. Figure 7 illustrates the mouse pad interface and par. 85 teaches mouse buttons that can be displayed with the mouse.

Torunoglu further teaches "CPU 104 communicates with device 101 via any known port 101 via any known port 102 or communication interface" (par. 44).

Application/Control Number: 10/748,146

Art Unit: 2176

(claim 1; i.e., a communications controller for communicating the position on the first and second virtual interfaces outside of the user-input interface; Examiner interprets the port as a communications controller. (see Ref. # 102 in Figure 2)

Lastly, Torunoglu teaches "a number different mechanisms for commanding a mode switch may be provided" (par. 54). (claim 1; i.e., a controller for controlling the projection unit to switch from the first virtual interface to the second virtual interface.

Examiner interprets the mechanism as anticipating a controller because the mechanism function is to control when the projection unit switch modes. Each mode is interpreted to be an input virtual interface as taught in par. 23.

Regarding claim 2, Torunoglu teaches "guide 203A has a layout resembling a standard QWERTY keyboard for entering text" (par. 46). (claim 2; i.e., wherein the first virtual interface comprises a keyboard interface in a first language) Examiner interprets the Qwerty layout keyboard to be a US-style keyboard, which is capable of representing the English language.

Torunoglu further teaches "a numeric virtual keyboard mode can be activated when the context of the user interaction dictates that numeric input is expected" (par. 61). (claim 2; i.e., and the second virtual interface comprises a keyboard interface in a second language.) Examiner interprets the numeric virtual keyboard as containing numbers, which is capable of representing computer binary language.

Regarding claims 3 and 4, Torunoglu teaches "Two or more input modes can be implemented in a sensing device by providing separate detection areas for each input mode. Thus, a mouse area and a keyboard area might be defined,

Art Unit: 2176

possibly having separating sensing apparatus for each (par. 48). (claim 3; i.e., wherein the first virtual interface comprises a keyboard interface and the second virtual interface comprises a mousepad.) (claim 4; i.e., wherein the first virtual interface comprises a keyboard interface and the second virtual interface comprises a mousepad and at least one mouse button.) Examiner considers when two or more input modes are displayed, a first and second virtual interface as recited in claims 3 and 4 is illustrated as taught by Torungolu. Figure 7 illustrates the mouse pad interface and par. 85 teaches mouse buttons that can be displayed with the mouse.

Regarding claim 5, Torunoglu's **Figure 5 displays a telephone button that can be used with the numeric virtual keyboard as taught in par. 61.** (claim 5; i.e.,
further comprising a telephone interface for communicating by phone between the user
and a remotely located telephone customer.) Examiner considers the numeric keyboard
in addition to the telephone button are together capable of serving as a telephone
interface as recited in claim 5.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Orr whose telephone number is (571) 274 1308. The examiner can normally be reached on Monday thru Friday 8 to 4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Herndon can be reached on (571) 272-4136. The fax phone

Application/Control Number: 10/748,146

Art Unit: 2176

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Henry Orr Examiner Art Unit 2176

1/29/2007 HO

Henry Orn

Heather R. Herndon
Supervisory Patent Examiner
Technology Center 2100

Page 7